



Specialty Paints & Products for
Sign · Branding · Re-Imaging
1.800.421.7961

Q-COAT UC™ 2-COMPONENT POLYURETHANE COATING

Q-COAT UC™ is a high performance 2-component acrylic - polyester polyurethane coating specifically formulated for metal, plastics, wood and many other surfaces formulated with the highest performance acrylic resins, polyester resins, pigments, additives and solvents to assure the most durable finish.

Q-COAT UC™ is an **Environmentally Friendly** product that is low in HAP's – hazardous air pollutants and low in VOC's – volatile organic compounds.

QHF Environmentally Friendly Product.

APPLICATION:

1.



Safety:

Use only NIOSH approved respirators and personal protection equipment recommended for the product used.

Always review the MSDS – Material Safety Data Sheets before use.

2. **SURFACE
PREPARATION:**

Suitable Surfaces:

Cleaning and substrate preparation for all primers, surfacers and adhesion promoters must be followed utilizing Technical Data Sheet recommendations prior to applying any Q-COAT UC™ topcoat.

Aluminum:

Sand with #P180 to #P320 grit.

Fiberglass:

Sand with #P180 to #P320 grit.

Steel:

Remove existing rust and oxides by dry sanding with P#80 to #P320 grit.

Plastics:

Cross hatch test for adhesion before use.

Wood:

Including MDF, MDO, and Extira type products. Test moisture level of substrate. Moisture level must be less than 12%. Certain applications using some types of wood as a substrate will expand and or contract too much for this product to be used. For exterior application, it is important to completely encapsulate the entire substrate to prevent moisture penetration. Remove debris with compressed air, sand as necessary, seal or prime wood to fill grain, knots or imperfections.



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3.



Surface Cleaning New:

For aluminum and steel, clean with **Q-SOLV™** Approved Cleaners / Degreasers and sand using power tools to produce a clean bare metal surface and to retain or produce a surface profile. Once cleaned, the surface will be free of all oil, grease, dirt, dust, mill scale, rust, paint, oxide, corrosion products and any other foreign matter. Re-clean with **Q-SOLV™** Approved Cleaners / Degreasers. For Steel or aluminum substrates, immediately apply **Q-PRIM™** approved primers after the substrate has dried or flash rusting may occur.

For plastic / ABS type substrates, clean with **Q-SOLV™ CD4402™** or **Q-SOLV™ CD4414™** and then apply **Q-PRIM™ PP1010™** Specialty Plastic Adhesion Promoter. Always perform a cross hatch adhesion test before production run painting.

For modified acrylic, acrylic or polycarbonate clean with **Q-SOLV CD4402™** or **Q-SOLV CD4404™** and then apply **Q-BASE PB0005™** or **Q-PRIM™ PP1010™** Specialty Plastic Adhesion Promoter or **Q-COAT DC™** Display Coating using it as a tinted primer. Always perform a cross hatch adhesion test before production run painting. Refer to TDS information on **Q-CROM TC0003™** Sealer or **COAT DC™** Display Coating or **Q-PRIM™ PP1010™** Specialty Plastic Adhesion Promoter.

Surface Cleaning Previously Painted:

Clean with **Q-SOLV™** Approved Cleaners / Degreasers and scuff sand (400 grit to 600 grit) to produce a surface profile. Once cleaned, the surface will be free of all oil, grease, dirt, dust, loose paint, rust, oxide products or any other foreign matter. Feather edge smooth any areas exposed to bare substrate and spot prime before top coating. Refer to TDS information on selected QHF brand primers before proceeding.

4. **GLOSS
SELECTION
OBTAINABLE:**

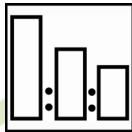
Gloss Level Binder Selection:

Q-Base™ UB2080™	High Gloss
Q-Base™ UB2084™	Semi – Gloss
Q-Base™ UB2086™	Satin Gloss
Q-Base™ UB2088™	Matte Gloss



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5.



Mixing Procedure and Ratio:

Combine:

- 4 parts **Q-COAT UC™** Mixed Color
- 1 part **Q-ACTV UA™** UA5000™ Activator
- 1 part **Q-SOLV UR™** UR Series™ Reducer

Optionally add:

- Up to ½ oz Accelerator per mixed quart in high gloss level colors
- Up to 1 oz Accelerator per mixed quart for lower gloss level colors

Stir until thoroughly blended.

Reducer and accelerator selections should be determined based on temperature, % relative humidity and job size.

6. **REDUCER
SELECTION:**

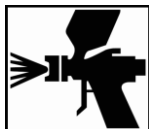
Reducer / Accelerator Selections:

- Q-SOLV™ UR1054™** Fast Reducer
- Q-SOLV™ UR1056™** Medium Reducer
- Q-SOLV™ UR1060™** Slow Reducer
- Q-SOLV™ UR1062™** Extra Slow Reducer

- Q-SOLV™ UR1091™** Leveling Additive
- Q-SOLV™ UR1094™** Accelerator – Pot Life Extender
- Q-SOLV™ UR1099™** Accelerator

- Q-SOLV™ UR1154™** Low VOC Fast Reducer
- Q-SOLV™ UR1156™** Low VOC Medium Reducer
- Q-SOLV™ UR1160™** Low VOC Slow Reducer
- Q-SOLV™ UR1162™** Low VOC Extra Slow Reducer

7.



Recommended Spray Equipment:

- Gravity Feed: 1.3 - 1.4 mm
- Siphon Feed: 1.6 - 1.8 mm
- Pressure Feed: 1.0 - 1-4 mm

8. **FILM
PROPERTIES:**

Apply first coat as a “tack coat” only, allow too “tack up” for 15 to 20 minutes. After first coat has properly “flashed off”, re-stir and apply next coat to achieve 1.5 mils minimum dry film thickness and to complete opacity, 2 coats minimum through recommended spray equipment. The use of opacity black and white spray monitors, wet and dry film thickness gauges and cross hatch adhesion testers are always recommended.



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9. DRY TIME:

Dry to handle at 75°F is 2 to 4 hours.

Dry to package and ship at 75°F is 24-48 hours minimum.

Application of vinyl graphics is 24–72 hours depending on curing conditions and type of vinyl.

NOTES:

All two component cross linking activation stops or significantly slows at temperatures below 60°F or 16°C. Applying coatings in these types of conditions will result in loss of gloss, poor film resistance, decreased performance, reduced chemical resistance and or improper curing.

Do not apply if temperature is below 60°F or above 110°F or if the surface temperature is within 5°F of the dew point.

Paint films cured over 24 hours, or sooner at elevated temperatures or when accelerator was added, should be dry sanded thoroughly with 400 to 600 grit before recoating to insure proper inner coat adhesion.

10. PERFORMANCE PROPERTIES:

Abrasion and mar / scratch resistance:	Excellent
Alkali resistance:	Excellent
Humidity resistance:	Excellent
Solvent, acid & salt resistance:	Excellent
Color fade resistance:	Excellent
Chalk resistance	Excellent
Self cleaning properties	Excellent

Always test surface preparation, primer and topcoat compatibility to determine acceptability before any production run.

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